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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/623,452	09/11/2000	Mitsuhiro Kasahara	P19962	2175
7	590 07/02/2003			
Greenblum & Bernstein			• EXAMINER	
1941 Roland C Reston, VA 2			ZAMANI, ALI A	
		•	ART UNIT	PAPER NUMBER
			2674	6
			DATE MAILED: 07/02/2003	•

Please find below and/or attached an Office communication concerning this application or proceeding.

	A	Anglia and (a)				
•	Application No.	Applicant(s)				
Office Action Summary	09/623,452	KASAHARA ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication on	Ali A. Zamani	2674				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 10-	<u>24-03</u> .					
2a) This action is FINAL . 2b)⊠ Th	nis action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-32 is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14 and 17-30</u> is/are rejected.						
7) Claim(s) 15,16,31 and 32 is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority document	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3	5) Notice o	v Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)				
J.S. Patent and Trademark Office	· · · · · · · · · · · · · · · · · · ·					

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-14 and 17-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Kawahara et al. (US pat. No. 6,456,302 B2).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

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Art Unit: 2674

In regard to claims 1 and 17, Kawahara et al. teach a display apparatus and method for performing gray scale display by dividing one field of picture into a plurality of weighted subfields and by controlling each subfield to emit or not emit based on the gray scale level of pixel in the picture, said apparatus comprising: a conversion unit (3) for selectively converting a gray scale level of the pixel to one gray scale level in a first gray scale group or one scale level in a second gray scale group, first gray scale group including a plurality of gray scale group being expressed by the combination of the subfields (see Fig. 16), second gray scale group including a plurality of gray scale levels each of which is in the middle of the gray scale levels in the first gray scale group (see Fig. 17); and a first diffusion unit (17) for generating video signal, video signal displaying a gray scale level obtained by the conversion unit (3) is in the first gray scale group, or a gray scale level in the first gray scale group which is obtained by diffusing a predetermined value corresponding to the gray scale level in the second gray scale group when the gray scale level obtained by the conversion unit (3) is in the second gray scale group (see col. 4, lines 9-35) which all function as claimed.

In regard to claims 2-13 and 20-26, Kawahara et al. disclose the first gray scale group include gray scale levels each of which is achieved by subfield in which there is no non-emitting subfields in subfields having weights less than the greatest weight among weights of the subfields to be emitted for achieving the gray scale level. It can be said that combinations, which minimize the use of subfields with high-order weights, are given in the subfield (see table 710) (Figs 3a, 4a, 5a and 6a).

Art Unit: 2674

In regard to claims 14 and 18-30, Kawahara et al. disclose a gray scale limiting/difference diffusion circuit (17) for converting gray scale levels in a supplied image signal to specific gray scale levels that do not easily create pseudo contours, and diffusing the difference between the converted gray scale level and the original gray scale level to adjacent pixels and the unit (53) detects slant blocks from the same frame, which include adjacent pixels between which the signal values for the pixels change (col. 11, lines 10-24).

Claims 15-16 and 31-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Shigeta and Otobe et al. made of record to show various types of image display apparatus and image evaluation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ali Zamani whose telephone number is (703) 308-6414. The examiner can normally be reached on Monday through Friday from 8:00 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe, can be reached on (703) 305-4709.

Any response to this action should be mailed to:

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Commissioner of Patents and Trademarks

Washington, DC 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Ali Zamani

June 10, 2003

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600